

Although not amended herein, the claims are presented for the convenience of the Examiner.

1. (previously presented) A transformer assembly for a microwave oven having a magnetron, comprising:
  - a transformer to apply voltage to the magnetron of the microwave oven;
  - a container receiving the transformer therein and having a base plate coupled to the microwave oven and a cover body coupled to the base plate, the cover body having an undulating surface; and
  - a cooling material contained in the container to cool the transformer.
2. (original) The transformer assembly of claim 1, wherein the cooling material is mineral oil.
3. (original) The transformer assembly of claim 1, wherein the container has an inner surface with at least two points having different distances from a center of the container.
4. (original) The transformer assembly of claim 1, wherein the container is made of aluminum or copper.
5. (original) The transformer assembly of claim 1, wherein the transformer and the base plate are attached to each other by spot welding.
6. (original) The transformer assembly of claim 1, wherein the cover body and the base plate are attached to each other by brazing.
7. (previously presented) A transformer assembly for a microwave oven having a magnetron, comprising:
  - a transformer to apply voltage to the magnetron of the microwave oven;
  - a container receiving the transformer therein and having a base plate coupled to the microwave oven and a cover body coupled to the base plate; and
  - a cooling material contained in the container to cool the transformer,wherein the base plate comprises:
  - a base part defining a bottom of the container;

extension parts at respective ends of the base part, formed by bending each end of the base part downwardly; and

mounting parts at respective ends of the extension parts, formed by bending the end of each extension part outwardly with the base part being separated from the mounting parts, to fasten the base plate to the microwave oven.

8. (previously presented) A transformer assembly for a microwave oven having a magnetron, comprising:

a transformer to apply voltage to the magnetron of the microwave oven;

a container receiving the transformer therein and having a base plate coupled to the microwave oven and a cover body coupled to the base plate; and

a cooling material contained in the container to cool the transformer,

wherein the base plate comprises:

a base part defining a bottom of the container;

extension parts at respective ends of the base part, formed by bending each end of the base part downwardly; and

mounting parts at respective ends of the extension parts, formed by bending the end of each extension part inwardly with the base part being separated from the mounting parts, to fasten the base plate to the microwave oven.

9. (original) The transformer assembly of claim 1, further comprising:

an input line;

an output line;

a primary winding of the transformer connected to an external power source via the input line;

a secondary winding of the transformer to output electric current, transformed by electromagnetic induction induced by the primary winding, to the magnetron via the output line; and

a terminal unit attached to the cover body to allow the input line and the output line to be connected to the external power source and the magnetron, respectively.

10. (original) The transformer assembly of claim 9, wherein the terminal unit has block terminals.

11. (previously presented) A transformer assembly for a microwave oven having a magnetron, comprising:

- a transformer to apply voltage to the magnetron of the microwave oven;
- a container receiving the transformer;
- a cooling material contained in the container to cool the transformer; and
- a bracket attached to a surface of the container to install the container in the microwave oven,

the surface of the container comprising a plurality of undulations to increase a surface area thereof so that a majority of heat emitted by the transformer is emitted to an outside of the container through the surface.

12. (original) The transformer assembly of claim 11, wherein the transformer, the surface of the container, and the bracket are attached to one another by spot welding.

13. (original) The transformer assembly of claim 11, wherein the container comprises a base plate and a cover body coupled to the base plate by brazing.

14. (previously presented) A transformer assembly for a microwave oven having a magnetron, comprising:

- a transformer to apply voltage to the magnetron of the microwave oven;
- a container receiving the transformer;
- a cooling material contained in the container to cool the transformer; and
- a bracket attached to a surface of the container to install the container in the microwave oven,

wherein the bracket comprises:

- a base part attached to the surface of the container;
- extension parts at respective ends of the base part, formed by bending each end of the base part downwardly; and
- mounting parts at respective ends of the extension parts, formed by bending the end of each extension part outwardly with the base part being separated from the mounting parts, to fasten the bracket to the microwave oven.

15. (previously presented) A transformer assembly for a microwave oven having a magnetron, comprising:

a transformer to apply voltage to the magnetron of the microwave oven;  
a container receiving the transformer;  
a cooling material contained in the container to cool the transformer; and  
a bracket attached to a surface of the container to install the container in the microwave oven,

wherein the bracket comprises:

a base part attached to the surface of the container;  
extension parts at respective ends of the base part, formed by bending each end of the base part downwardly; and  
mounting parts at respective ends of the extension parts, formed by bending the end of each extension part inwardly with the base part being separated from the mounting parts, to fasten the bracket to the microwave oven.

16. (original) The transformer assembly of claim 11, further comprising:

an input line;  
an output line;  
a primary winding of the transformer connected to an external power source via the input line;  
a secondary winding of the transformer to output electric current, transformed by electromagnetic induction caused by the primary winding, to the magnetron via the output line;  
and  
a terminal unit attached to the cover body to allow the input line and the output line to be connected to the external power source and the magnetron, respectively.

17. (original) The transformer assembly of claim 16, wherein the terminal unit has block terminals.

18. (previously presented) A microwave oven, comprising:

a cooking chamber;  
an electrical components area isolated from the cooking chamber;  
a magnetron installed in the electrical components area to generate microwaves into the cooking chamber;  
a transformer to apply voltage to the magnetron;  
a container receiving the transformer and having a base plate and a cover body having

multiple undulations to increase a surface area thereof and coupled to the base plate; and  
a cooling material contained in the container to cool the transformer.

19. (original) The microwave oven of claim 18, wherein the cooling material is mineral oil.

20. (original) The microwave oven of claim 18, wherein the container has an inner surface with at least two points having different distances from a center of the container.

21. (original) The microwave oven of claim 18, wherein the container is made of aluminum or copper.

22. (original) The microwave oven of claim 18, wherein the transformer and the base plate are attached to each other by spot welding.

23. (original) The microwave oven of claim 18, wherein the cover body and the base plate are attached to each other by brazing.

24. (previously presented) A microwave oven, comprising:  
a cooking chamber;  
an electrical components area isolated from the cooking chamber;  
a magnetron installed in the electrical components area to generate microwaves into the cooking chamber;  
a transformer to apply voltage to the magnetron;  
a container receiving the transformer and having a base plate and a cover body coupled to the base plate; and  
a cooling material contained in the container to cool the transformer,  
wherein the base plate comprises:  
a base part defining a bottom of the container;  
extension parts at respective ends of the base part, formed by bending each end of the base part downwardly; and  
mounting parts at respective ends of the extension parts, formed by bending the end of each extension part outwardly with the base part being separated from the mounting parts, to fasten the base plate to the microwave oven.

25. (previously presented) A microwave oven, comprising:  
a cooking chamber;  
an electrical components area isolated from the cooking chamber;  
a magnetron installed in the electrical components area to generate microwaves into the cooking chamber;  
a transformer to apply voltage to the magnetron;  
a container receiving the transformer and having a base plate and a cover body coupled to the base plate; and  
a cooling material contained in the container to cool the transformer,  
wherein the base plate comprises:  
a base part defining a bottom of the container;  
extension parts at respective ends of the base part, formed by bending each end of the base part downwardly; and  
mounting parts at respective ends of the extension parts, formed by bending the end of each extension part inwardly with the base part being separated from the mounting parts, to fasten the base plate to the microwave oven.

26. (original) The microwave oven of claim 18, further comprising:  
an input line;  
an output line;  
a primary winding of the transformer connected to an external power source via the input line;  
a secondary winding of the transformer to output electric current, transformed by electromagnetic induction caused by the primary winding, to the magnetron via the output line;  
and  
a terminal unit attached to the cover body to allow the input line and the output line to be connected to the external power source and the magnetron, respectively.

27. (original) The microwave oven of claim 26, wherein the terminal unit has block terminals.

28. (previously presented) A microwave oven, comprising:  
a cooking chamber;

an electrical components area isolated from the cooking chamber;  
a magnetron installed in the electrical components area to generate microwaves into the cooking chamber;  
a transformer to apply voltage to the magnetron;  
a container receiving the transformer;  
a cooling material contained in the container to cool the transformer while remaining within the container; and  
a bracket attached to a surface of the container to install the container in the machine room.

29. (original) The microwave oven of claim 28, wherein the transformer, the surface of the container, and the bracket are attached to one another by spot welding.

30. (original) The microwave oven of claim 28, wherein the container comprises a base plate and a cover body coupled to the base plate by brazing.

31. (previously presented) A microwave oven, comprising:  
a cooking chamber;  
an electrical components area isolated from the cooking chamber;  
a magnetron installed in the electrical components area to generate microwaves into the cooking chamber;  
a transformer to apply voltage to the magnetron;  
a container receiving the transformer;  
a cooling material contained in the container to cool the transformer; and  
a bracket attached to a surface of the container to install the container in the machine room,  
wherein the bracket comprises:  
a base part attached to the surface of the container;  
extension parts at respective ends of the base part, formed by bending each end of the base part downwardly; and  
mounting parts at respective ends of the extension parts, formed by bending the end of each extension part outwardly with the base part being separated from the mounting parts, to fasten the bracket to the microwave oven.

32. (previously presented) A microwave oven, comprising:

a cooking chamber;

an electrical components area isolated from the cooking chamber;

a magnetron installed in the electrical components area to generate microwaves into the cooking chamber;

a transformer to apply voltage to the magnetron;

a container receiving the transformer;

a cooling material contained in the container to cool the transformer; and

a bracket attached to a surface of the container to install the container in the machine room,

wherein the bracket comprises:

a base part attached to the surface of the container;

extension parts at respective ends of the base part, formed by bending each end of the base part downwardly; and

mounting parts at respective ends of the extension parts, formed by bending the end of each extension part inwardly with the base part being separated from the mounting parts, to fasten the bracket to the microwave oven.

33. (original) The microwave oven of claim 28, further comprising:

an input line;

an output line;

a primary winding of the transformer connected to an external power source via the input line;

a secondary winding of the transformer to output electric current, transformed by electromagnetic induction caused by the primary winding, to the magnetron via the output line; and

a terminal unit attached to the cover body to allow the input line and the output line to be connected to the external power source and the magnetron, respectively.

34. (previously presented) A microwave oven, having an electrical components area comprising:

a transformer assembly having a transformer, a container receiving the transformer, and a cooling material hermetically sealed in the container to cool the transformer; and

a fastening unit connected to the transformer assembly to install the transformer



assembly in the electrical components area of the microwave oven, wherein a distance between a center line of the container and a center line of the fastening unit is less than a distance between the center line of the container and an outer circumferential surface of the container.

35. (original) The microwave oven of claim 34, wherein the container comprises:  
a base part defining a bottom of the container;  
extension parts at respective ends of the base part, formed by bending each end of the base part downwardly; and  
mounting parts at respective ends of the extension parts, formed by bending the end of each extension part outwardly with the base part being separated from the mounting parts,  
wherein the fastening unit fastens the mounting parts to a bottom of the electrical components area.

36. (original) The microwave oven of claim 35, wherein the transformer assembly has a bracket attached to a surface of the container, the bracket comprising:  
a base part attached to the surface of the container;  
extension parts at respective ends of the base part, formed by bending each end of the base part downwardly; and  
mounting parts at respective ends of the extension parts, formed by bending the end of each of the extension parts with the base part being separated from the mounting part,  
wherein the fastening unit fastens the mounting part to a bottom of the electrical components area.

37-61. (cancelled)